

The diagram illustrates a database system architecture. A large box labeled "COMPUTER" (10) contains several internal components. At the top, a "TERMINAL INTERFACE" (16) is connected to a "MONITOR" (14) outside the computer box. Below the terminal interface, there are two main service blocks: "LOCKING SERVICES" (18) on the left and "SYSTEM SERVICES" (20) on the right. These services interact with a central block labeled "RELATIONAL DATA BASE SYSTEM" (24). This block is further divided into three sections: "RELATIONAL DATA BASE SYSTEM" (24), "DATA MANAGER" (26), and "OTHER COMPONENTS" (30). Below "OTHER COMPONENTS" is a "BUFFER MANAGER" (28). The "DATA MANAGER" (26) is connected to a "USER AND SYSTEM TABLES" (12) cylinder at the bottom. The "SYSTEM SERVICES" (20) are connected to a "LOG" (14) cylinder on the right. The "COMPUTER" (10) box is connected to the "MONITOR" (14) and the "LOG" (14).

FIG. 1

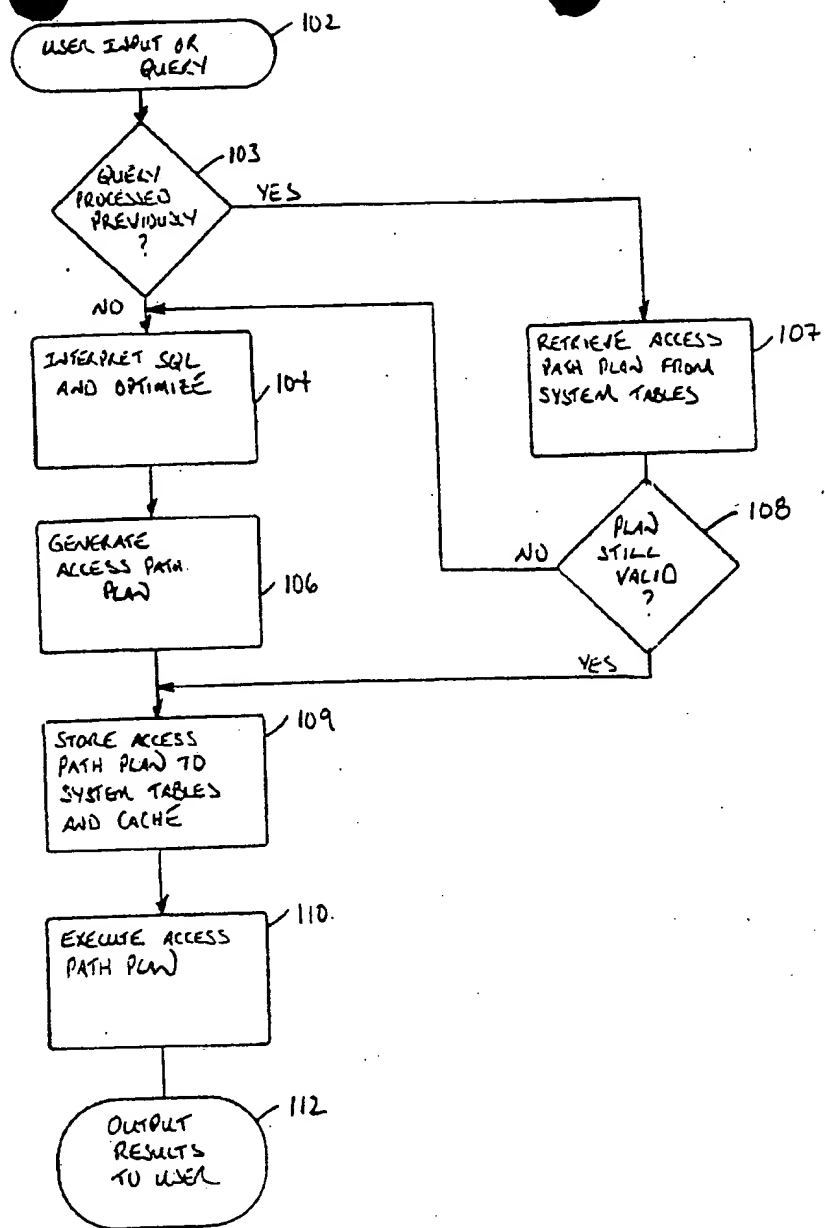
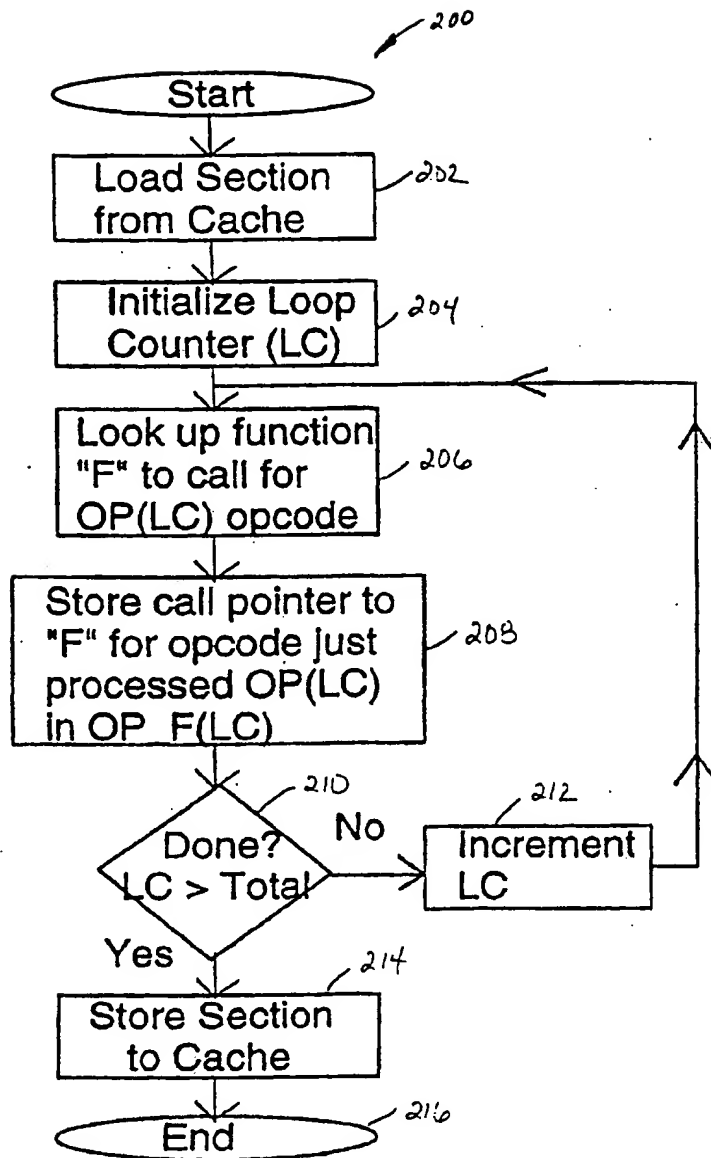
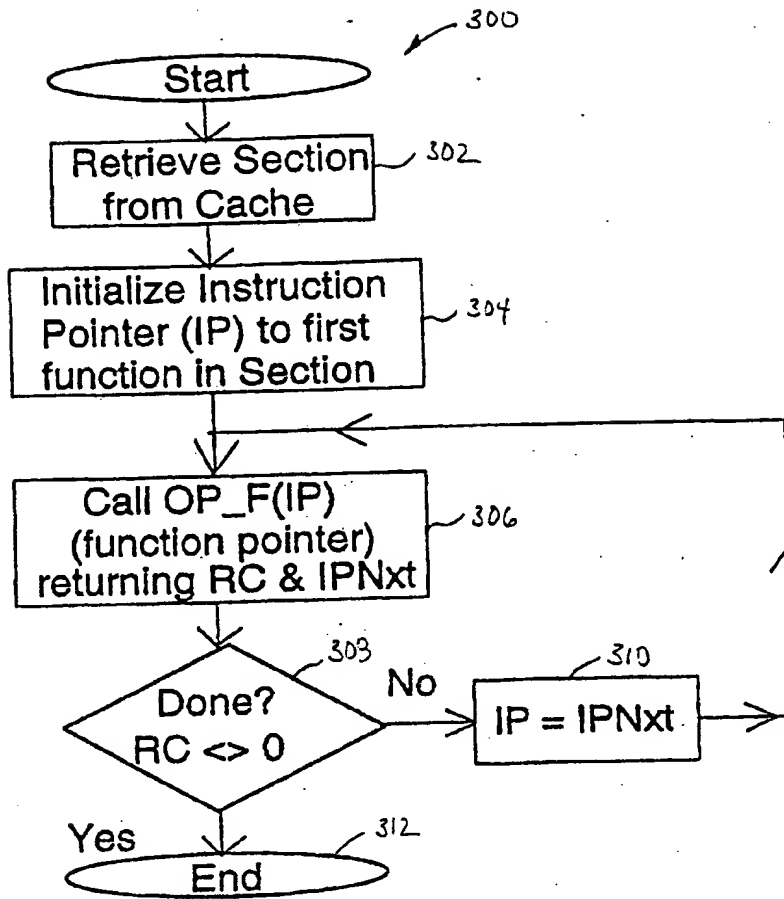


FIG. 2



Translation of Opcode to Function Pointer

FIG. 3



New implementation of Section Execution

FIG. 4